

Title (en)

HEATING CONTROL SYSTEM, DEPOSITION DEVICE PROVIDED THEREWITH, AND TEMPERATURE CONTROL METHOD

Title (de)

ERWÄRMUNGSSTEUERUNGSSYSTEM, DAMIT AUSGESTATTETE ABLAGERUNGSVORRICHTUNG UND TEMPERATURSTEUERUNGSVERFAHREN

Title (fr)

SYSTÈME DE COMMANDE DE CHAUFFAGE, DISPOSITIF DE DÉPÔT PRÉVU AVEC CELUI-CI ET PROCÉDÉ DE RÉGULATION DE TEMPÉRATURE

Publication

**EP 2557591 A1 20130213 (EN)**

Application

**EP 11765554 A 20110329**

Priority

- JP 2010089545 A 20100408
- JP 2011057825 W 20110329

Abstract (en)

In order to make a heating control system which allows a plurality of heaters to heat an object to be heated without depending on a variation in characteristics among a plurality of heater power sources, a heating control system of the present invention includes: a thermocouple (6M) which detects a temperature of an object to be heated; temperature control means (3M) and temperature control means (3S1); electric current and voltage detecting means (5M) for detecting an electric power value (Wm), and electric current and voltage detecting means (5S1) for detecting a current electric power (PVs1); and target electric power calculating means (1S1) for calculating a target electric power (SPs1). The temperature control means (3M) receives a target temperature (SPm) and a current temperature (PVm), and carries out electric power control so that the current temperature (PVm) matches the target temperature (SPm). The target electric power calculating means (1S1) receives the electric power value (Wm), and calculates the target electric power (SPs1) by multiplying the electric power value (Wm) by a given ratio. The temperature control means (3S1) receives the target electric power (SPs1) and the current electric power (PVs1), and carries out electric power control so that the current electric power (PVs1) matches the target electric power (SPs1).

IPC 8 full level

**H01L 21/67** (2006.01); **C23C 16/46** (2006.01); **C23C 16/52** (2006.01)

CPC (source: EP KR US)

**C23C 16/46** (2013.01 - EP KR US); **C23C 16/52** (2013.01 - EP KR US); **G05D 23/1919** (2013.01 - EP); **H01L 21/0262** (2013.01 - KR); **H01L 21/67248** (2013.01 - EP KR US); **H01L 21/683** (2013.01 - KR)

Cited by

CN105489526A; KR20160046869A; US10438823B2; WO2015024762A1; TWI676704B

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2557591 A1 20130213**; **EP 2557591 A4 20161214**; CN 102668034 A 20120912; JP 2011222703 A 20111104; JP 5026549 B2 20120912; KR 20120096021 A 20120829; TW 201208497 A 20120216; US 2013020311 A1 20130124; US 8907254 B2 20141209; WO 2011125654 A1 20111013

DOCDB simple family (application)

**EP 11765554 A 20110329**; CN 201180005095 A 20110329; JP 2010089545 A 20100408; JP 2011057825 W 20110329; KR 20127016086 A 20110329; TW 100112074 A 20110407; US 201113577109 A 20110329